

# **Meeting California's Electricity System Challenges through Electricity Energy Storage**

Thursday, February 24, 2005  
10:00 a.m. to 3:30 p.m.

## **Agenda**

### **Welcome & Introductions**

**Opening Remarks:** Joseph Desmond, Deputy Secretary of Energy, State of California

**Electricity Storage: Addressing Electricity Issues.**  
(Pramod Kulkarni – Energy Storage Program Manager CEC)

**Overview by CA-ISO on the role that Helms hydro storage has played and future applications of storage that might help CA-ISO** - Dave Hawkins, CA-ISO

**A non-technical overview of current storage technology options, their status, and the application of these technologies to California's needs** - Dr. Imre Gyuk, Electricity Storage Program Manager, US Department of Energy

### **Support for Grid Management & Stability: Case Studies**

- Golden Cooperative in Alaska 40-MW Nickel-Cadmium battery - Dr. Robert Schainker, Electric Power Research Institute
- Puerto Rico Electric Power Authority Project 20 MW Battery Re-powering

### **Support for Distribution System: Case Studies**

- 2-MW flow battery application by Pacific Power in Utah
- 400-kW flow battery for distribution support in Detroit Edison territory

### **Support for Renewable Dispatchability & Meeting Renewable Portfolio Standards (RPS) using electricity storage: Case Studies**

- Discussion on the Compressed Air Energy System in Iowa for integrating wind electric generation
- Flow Battery Storage application at a 6-MW wind farm in Australia

### **Energy Storage Role in meeting Demand response & Peak Load Reduction: Case Studies**

- 8-MW load management application in industrial and commercial setting in Japan.
- A second example from the US

### **Time for Audience Questions, Comments & Panel Discussion**